

Listing of Claim Amendments

1. (Original) An acetabular component and an insertion and extraction tool for use with the acetabular component, comprising

an acetabular component comprising a partial spherical body having
a peripheral surface circumscribing a cavity,

a plurality of recesses along an outer surface of said body each having an entry portion
along said peripheral surface leading into an engagement portion angled from said
entry portion,

each of said engagement portions having a first end aligned with said entry portion and a
second end extending beyond said entry portion to define a shoulder between said
second end and said peripheral surface; and

an insertion and extraction tool comprising an outer sleeve having a distal end carrying
a locking member including a plurality of radially extending arms and a locking
finger extending distally from each of said arms,

an inner shaft, slidably disposed in said outer sleeve and having a distal end carrying
an engagement plate disposed distally of said distal end of said outer sleeve and
having a plurality of engagement protrusions, each of said engagement
protrusions including a leg extending distally from said engagement plate to a foot
angled from said leg,

said engagement plate having a plurality of channels therein slidably receiving said
arms, respectively, and

a spring biasing said outer sleeve and said shaft longitudinally to a locked position for
said tool in which said locking member is in an extended position relative to said
engagement plate wherein said locking fingers protrude distally beyond said
engagement plate alongside said legs of said engagement protrusions,

said tool being movable to an unlocked position in response to an actuating force
applied to said tool to effect relative longitudinal movement of said outer sleeve
and said shaft to move said locking member to a retracted position relative to said
engagement plate wherein said locking fingers are retracted within said channels,

said feet being insertable through said entry portions into said first ends of said engagement portions of said recesses with said tool in said unlocked position and being movable into said second ends of said engagement portions in response to rotation of said engagement plate about its central longitudinal axis, said shoulders preventing withdrawal of said engagement protrusions from said recesses in a longitudinal direction and said recesses presenting portions unoccupied by said engagement protrusions when said feet are moved into said second ends of said engagement portions, said tool being returned automatically to said locked position by said spring in response to removal of the actuating force to cause said locking fingers to enter said unoccupied portions and prevent rotation of said engagement plate about its central longitudinal axis whereby said acetabular component is locked to said tool.

2. (Currently amended) ~~An~~ The acetabular component and ~~an~~ the insertion and extraction tool as recited in **claim 1** and further comprising an alignment member disposed on said engagement plate for insertion in said cavity of said acetabular component to facilitate alignment of said feet with said entry portions of said recesses.

3. (Cancelled)

4. (Currently amended) An acetabular component for releasable engagement with locking structure of an insertion and extraction tool, the locking structure having at least one foot and an adjacent locking finger, comprising a thin-walled, unitary, partial spherical body having a peripheral end surface, an inner surface circumscribed by said peripheral end surface and defining an articular surface for a femoral head, an outer surface, and a plurality of angled recesses along said outer surface, said recesses having entry portions along said peripheral end surface for the locking structure of the insertion and extraction tool, said entry portion leading into an engagement portion angled from said entry portion, each said recess having an open outer periphery extending from said entry portion to said engagement portion, said body having a thickness of about 3-6 mm, and said outer surface of said acetabular component configured for attachment to acetabular bone via a porous or rough coating configured to promote bone in-growth or on-growth.

5. (Cancelled)

6. (Currently amended) ~~A~~n The acetabular component for releasable engagement with locking structure of an insertion and extraction tool as recited in **claim 4**, wherein each said recess is sized such that when said foot is in said recess, an outer edge of said foot substantially matches said outer surface along said open outer periphery of said recess.

7-8. (Cancelled)

9. (Currently amended) ~~A~~n The acetabular component for releasable engagement with locking structure of an insertion and extraction tool as recited in **claim 4**, wherein said acetabular component has three said recesses.

10. (Currently amended) ~~A~~n The acetabular component and ~~an~~ the insertion and extraction tool as recited in **claim 1**, further comprising at least one of said locking fingers having a tapered edge portion, said tapered edge portion serving to securely wedge said locking finger between said foot and a wall of said recess.

11. (Currently amended) ~~A~~n The acetabular component and ~~an~~ the insertion and extraction tool as recited in **claim 10**, wherein an opposing edge of said at least one locking finger is a straight edge.

12. (Currently amended) ~~A~~n The acetabular component and ~~an~~ the insertion and extraction tool as recited in **claim 11**, wherein said straight edge of said at least one locking finger slidably abuts a straight edge of an adjacent foot member.

13. (Currently amended) ~~A~~n The acetabular component for releasable engagement with locking structure of an insertion and extraction tool as recited in ~~claim 4~~ **claim 1**, wherein said acetabular component has three said recesses.

14. (Currently amended) ~~A~~n The acetabular component and ~~an~~ the insertion and extraction tool as recited in **claim 12** and further comprising an alignment member disposed on said engagement plate for insertion in said cavity of said acetabular component to facilitate alignment of said feet with said entry portions of said recesses.

15. (Currently amended) ~~A~~n The acetabular component for releasable engagement with locking structure of an insertion and extraction tool as recited in ~~claim 4~~ **claim 10**, wherein said acetabular component has three said recesses.

16. (Currently amended) ~~A~~n The acetabular component and ~~an~~ the insertion and extraction tool as recited in **claim 1**, wherein said outer surface of said acetabular component is configured for attachment to acetabular bone.

17. (Currently amended) ~~An~~ The acetabular component ~~for releasable engagement with locking structure of an~~ and the insertion and extraction tool as recited in **claim 16**, wherein said outer surface comprises a porous or rough coating configured to promote bone in-growth or on-growth.

18. (Currently amended) ~~An~~ The acetabular component and ~~an~~ the insertion and extraction tool as recited in **claim 10**, wherein said outer surface of said acetabular component is configured for attachment to acetabular bone.

19. (Currently amended) ~~An~~ The acetabular component ~~for releasable engagement with locking structure of an~~ and the insertion and extraction tool as recited in **claim 18**, wherein said outer surface comprises a porous or rough coating configured to promote bone in-growth or on-growth.

20. (Currently amended) ~~An~~ The acetabular component and ~~an~~ the insertion and extraction tool as recited in **claim 12**, wherein said outer surface of said acetabular component is configured for attachment to acetabular bone.

21. (Currently amended) An acetabular component for releasable engagement with locking structure of an insertion and extraction tool as recited in ~~claim 13~~ claim 16, wherein said acetabular component has three said recesses.